



K100671

Special 510(k): Device Modification Summary

03/04/10

NovaBone Dental Putty - Bioactive Synthetic Bone Graft

1. Submitter Information:

Name:

NovaBone Products, LLC

Address:

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Alachua, FL 32615

Telephone:

(386) 462-7660

Facsimile:

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Contact:

David M. Gaisser

2. Name of Device:

Trade Name:

NovaBone Dental Putty – Bioactive Synthetic Bone Graft

Common Name:

Osteoconductive Bone Void Filler

Synthetic Resorbable Bone Graft Material

Regulation Number:

21 CFR 872.3930

Regulation Name:

Bone Grafting Material, Synthetic

3. Legally Marketed Predicate Device:

Predicate #1:

NovaBone Dental Putty - Bioactive Synthetic Graft

[K091484]

Predicate #2:

NovaBone Dental Putty - Bioactive Synthetic Graft

[K063549]

4. Device Description

NovaBone Dental Putty is an osteoconductive, bioactive, bone void filler device. The device is intended for dental intraosseous, oral, and cranio-/maxillofacial bony defects and is supplied sterile. It is composed of a calcium-phosphorus-sodium-silicate particulate mixed with a synthetic binder that acts as a temporary binding agent for the particulate. The particulate and binder are provided premixed as a pliable cohesive material. The mixed device is supplied sterile, packaged either in a PET-G tray or in a disposable plastic syringe or cartridge. On implantation, the binder is absorbed to permit tissue infiltration between the Bioglass particles. The particles are slowly absorbed and replaced by new bone tissue during the healing process. The device is intended for dental intraosseous, oral, and cranio-/maxillofacial bony defects. It is supplied sterile.

5. Intended Use

The intended use of NovaBone Dental Putty is to provide a safe, biocompatible synthetic bone graft material for use in oral, dental intraosseous, and craniofacial defects. It is used alone in a manner comparable to autogenous bone graft chips or allograft bone particulate (Demineralized Freeze Dried Bone) or may be mixed with either (typically 1:1 ratio v/v) as a bone graft extender. Typical uses include:

- Periodontal/Infrabony defects
- Ridge Augmentation (sinusotomy, osteotomy, cystectomy)
- Extraction sites (ridge maintenance/augmentation, implant preparation/ placement)
- Sinus lifts
- Cystic cavities
- Cranio-facial augmentation

For larger defects, a mixture of NovaBone Dental Putty with an equal volume of allograft or autograft bone and bone marrow may improve new bone formation.

6. Technological Characteristics

The technological characteristics of the NovaBone Dental Putty device are similar to those of the predicates. The device and the predicates are designed as osteoconductive space-filling devices to be gently packed into defect sites and used as non-structural scaffolds for the body's natural healing and bone regeneration process. The device indications are unchanged from those of the predicate devices. The device is intended to be used alone, or in combination with autogenous or allograft bone.

The NovaBone Dental Putty device of this submission is identical in composition to the NovaBone Dental Putty predicate devices; no changes to the device formulation or function have been made. The primary component of NovaBone Dental Putty is a calcium phospho-silicate particulate, a synthetic material that is both biocompatible and osteoconductive. The NovaBone Dental Putty includes a synthetic binder as an inert carrier for ease of handling and delivery, forming a premixed cohesive material. The binder is biocompatible and is absorbed after implantation, opening space between the bioactive glass particulate remains for a longer post-implantation period, acting as a scaffold for bone ingrowth. This particulate is absorbed and replaced by new bone tissue.

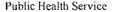
The filled-cartridge package format as described in this submission is a product line extension, increasing the device package format availability. The new packaging aids in device placement, permitting a different mode of application distinct from that of the previously cleared predicates packaged in tray-in-pouch [K063549] and syringe-in-pouch [K091484] formats. The cartridge packaging system itself is similar to the Class I devices as defined in premarket applications K882551 (cartridge) and K832662/K915147 (cartridge syringe applicator).

7. Conclusion

The NovaBone Dental Putty device modification subject to this submission is to include a filled-cartridge package format to augment the current package configurations. This device modification does not result in a change in

technological characteristics of the device. NovaBone Putty continues to be safe and effective as a non-structural osteoconductive bone void filler for osseous defects.







Food and Drug Administration 10903 New Hampshire Avenue Document Control Room –WO66-G609 Silver Spring, MD 20993-0002

Mr. David M. Gaisser Vice President NovaBone Products, LLC 13631 Progress Boulevard, Suite 600 Alachua, Florida 32615

MAR 3 0 2010

Re: K100671

Trade/Device Name: NovaBone Dental Putty-Bioactive Synthetic Bone Graft

Regulation Number: 21CFR 872.3930 Regulation Name: Bone Grafting Material

Regulatory Class: II Product Code: LYC Dated: March 4, 2010 Received: March 9, 2010

Dear Mr. Gaisser:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please go to

http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucm115809.htm for the Center for Devices and Radiological Health's (CDRH's) Office of Compliance. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/ default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

Anthony D. Watson, B.S., M.S., M.B.A.

Director

Division of Anesthesiology, General Hospital, Infection Control and dental Devices

Office of Device Evaluation

Center for Devices and

Radiological Health

K\00671 STATEMENT OF INDICATIONS FOR USE

510(k) Number (if known):
Device Name: NovaBone Dental Putty - Bioactive Synthetic Bone Graft
ndications For Use:
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For larger defects, a mixture of NovaBone Dental Putty with an equal volume of allograft or autograft bone and bone marrow may improve new bone formation.
Prescription Use XX OR Over-The-Counter Use (Per 21 CFR 801.109)
PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE IF NEEDED)
Concurrence of CDRH, Office of Device Evaluation (ODE)
Division Sign-Off) Division of Anesthesiology, General Hospital Infection Control, Dental Devices
10(k) Number: K/00671